



# Briefing For: 40mm Industry Day

## 40 mm TDPs

Review, Clean and 3D

**Arthur R. Pizza**

**Act. APO 40mm HV  
Production  
US ARMY ARDEC  
[apizza@pica.army.mil](mailto:apizza@pica.army.mil)**



# Introduction

Objective: To provide an update of the ongoing technical review of the 40mm Technical Data Packages. The technical reviews will include the generation of Detailed Specifications and have a three-dimensional feature added to the drawings.





# TDPs Affected

- High Velocity (MK19 Mod3 GMG)
  - M385A1 Practice
  - M918 Practice (“Flash-Bang”)
  - M430A1 High Explosive Dual Purpose (HEDP)
- Low Velocity (M203/M79)
  - M781 Practice (“Orange Dye”)
  - M583A1 White Star Parachute (“Illumination”)
  - M433 High Explosive Dual Purpose (HEDP)





# OUTLINE

- A. Review the TDP
  - 1. Drawings
  - 2. Specifications (Standardize Testing)
  - 3. Packaging Requirements
- B. Generate DTL Specifications as required.
- C. Generate 3D drawings
- D. Release by ECP**
- E. ERR the TDP**
- F. Continue to improve by ECP**





# What This Means

- A better TDP set-up for a Systems type contract.
- Up-to-date Detailed Specifications
- Better understanding and improved visualization through 3d.
- Reduced number of ECPs and RFDs and RFWs.
- Better product



# Detailed Specifications

- M433 – Consolidated 7 specifications into 1: including Spitiback, M118 Ctg Case, Ctg Case LAP, M118& M195 Plug Base and Cup Powder Charge, Liner and Prj. Metal Parts
- M918 – Separate Projectile and Cartridge LAP
- M385 – Separate Projectile and Cartridge LAP
- M550 Fuze
- M550 Fuze Escapement
- M583/M661/M662
- M781 – Completed; Available via Website
- M169 Case
- M430A1
- Link



# MIL-DTL Major Changes

- Moved all end item requirements to Section 3
  - Replaced MIL-STD-105 with MIL-STD- 1916
  - Consolidated specifications as much as possible
  - New format in accordance with MIL-STD- 961E



# STATUS

- All changes have been ECPed
- Awaiting CCB board decision
- Approved ECPs are being ERRed
- Any additional changes will go in under a new ECP







# Conclusions

- All TDPs were converted to 3D format
- All Specifications are DTL Specs
- If there are errors in the TDPs will be changed by ECP process
- Reviews by services and contractors are ongoing. Changes will be made by ECP





# Questions

Arthur R. Pizza

(973) 724-6032

[apizza@pica.army.mil](mailto:apizza@pica.army.mil)

Leo D'Ulisse (QA)

(973) 724-5715

[dulisse@pica.army.mil](mailto:dulisse@pica.army.mil)



# Backup Charts

*RDE Command*





# Examples cont.

- Drawing Methods
  - Ansi-Y14.5?
  - Are the proper symbols used?
  - Are the datum's correct?
  - Are the depiction correct?
- Qualified Source of supply
  - Are there qualified sources?
  - Are they still making the item?
- Distribution Statement
  - Is the statement correct?
  - Is it missing?





# Review the TDP

- Check drawings
  - Hierarchy (WBS)
  - Notes
  - Dimensions and Tolerances
  - Drawing Methods
  - Specifications (Standardize Testing When Possible)
  - Qualified source of supply
  - Distribution Statements





# Examples

- Hierarchy
  - Is there a COAI drawing?
  - Is a DTL Spec. attached to the top drawing?
  - Are the Packaging drawings correct and called out?
- Notes
  - Are they clear and understandable?
  - Do they make sense and are they necessary?
- Dimensions and Tolerances
  - Are the dimensions correct?
  - Are they called out correctly using the right symbols?
  - Does the tolerances make sense?